



HEAT CONTROLLER

Remote Controller Manual

VMH09/12/18/24 SU Series

Inverter Single Zone
Ductless Mini-Split

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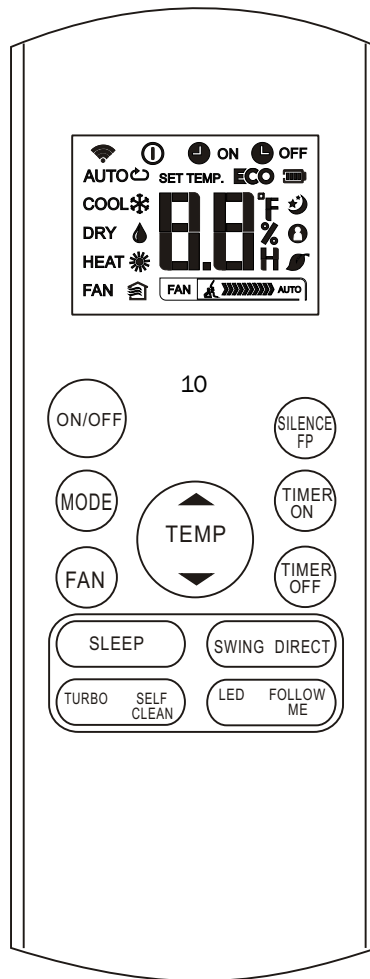
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NOTE:

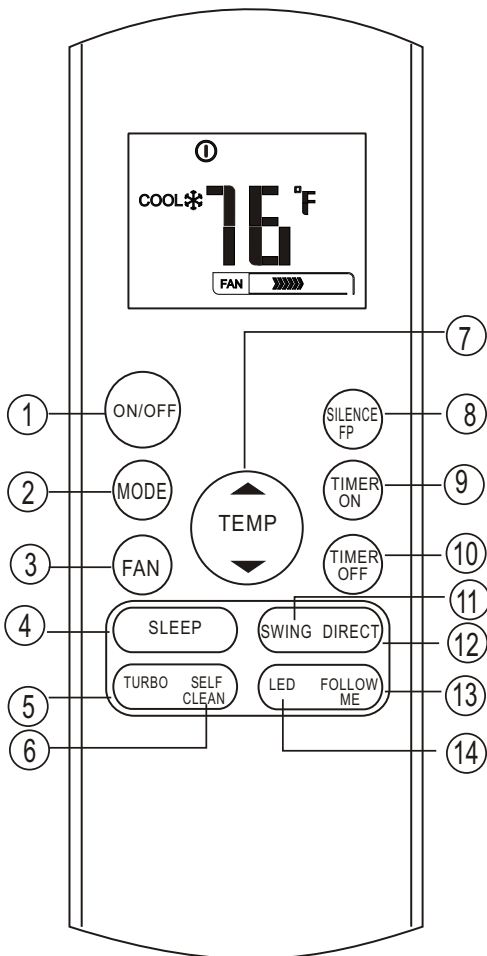
- Buttons design is based on typical model and might be slightly different from the actual one you purchased, the actual shape shall prevail.
- All the functions described are accomplished by the unit. If the unit does not have this feature, no corresponding operation will happen when pressing the relative button on the remote controller.
- When there are wide differences between “Remote controller illustration” and “USER’S MANUAL” on function description, the description of “USER’S MANUAL” shall prevail.

Remote Controller Specifications

Model	RG57A6/BGEFU1
Rated Voltage	3.0V(Dry batteries R03/LR03×2)
Signal Receiving Range	8m
Environment	23°F~140°F (-5°C~60°C)



Operation of buttons



1 ON/OFF Button

This button turns the air conditioner ON and OFF.

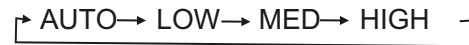
2 MODE Button

Press this button to modify the air conditioner mode in a sequence of following:



FAN Button

3 Used to select the fan speed in four steps:



NOTE: You can not switch the fan speed in AUTO or DRY mode.

4 SLEEP Button

- Active/Disable sleep function. This will maintain the most comfortable temperature and save energy. This function is available on COOL, HEAT or AUTO mode only.
- For details, see “sleep operation” in “USER’S MANUAL.”

NOTE: While the unit is running under SLEEP mode, it will be cancelled if MODE, FAN SPEED or ON/OFF button is pressed.

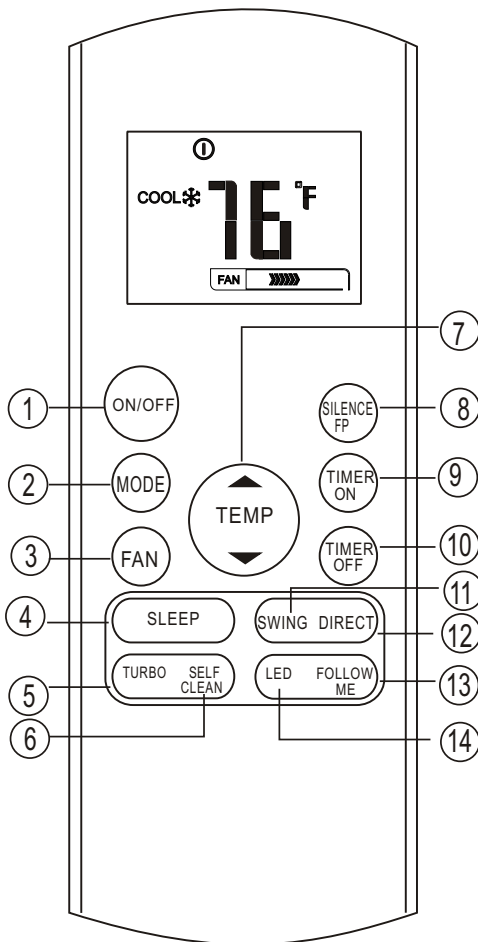
5 TURBO Button

Active/Disable Turbo function. Turbo function enables the unit to reach the preset temperature at cooling or heating operation in the shortest time(if the indoor unit does not support this function, there is no corresponding operation happened when pressing this button.)

6 SELF CLEAN Button

Active/Disable Self Clean function. Under SELF CLEAN mode, the air conditioner will automatically clean and dry the Evaporator and keep it fresh for the next operation.

Operation of buttons



7 UP Button(▲)

Push this button to increase the indoor temperature setting in 1°F increments to 86°F.

DOWN Button(▼)

Push this button to decrease the indoor temperature setting in 1°F increments to 62°F.

NOTE: Temperature control is not available in Fan mode.

NOTE: Press and hold **UP** and **DOWN** buttons together for 3 seconds to alternate the temperature display between the °C & °F scale.

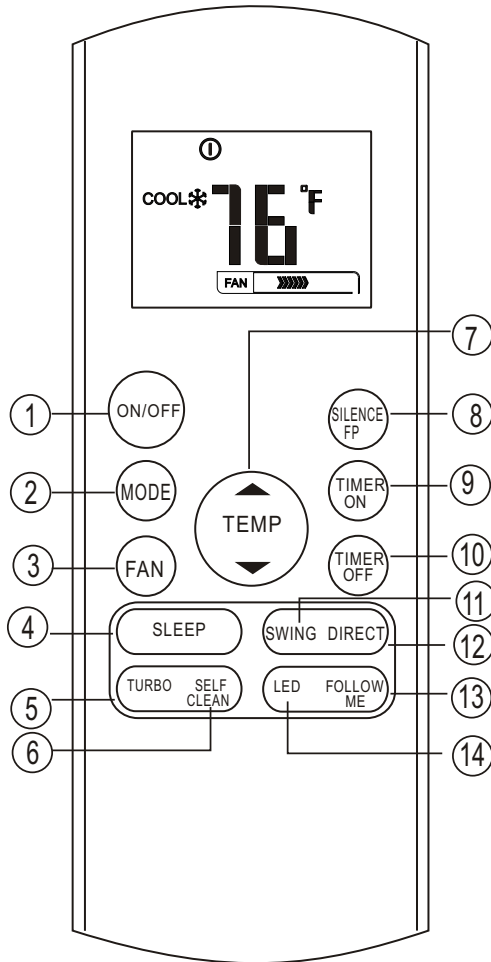
8 SILENCE/FP Button

- Active/Disable SILENCE function. If pushing more than 2 seconds, the 'FP' function will be activated, push more than 2 seconds again to disable.
- When the SILENCE function is activated, the compressor will operate at low frequency and the indoor unit will bring faint breeze, which will reduce the noise to the lowest level and create a quiet and comfortable environment. Due to low frequency operation of compressor, it may result in insufficient cooling and heating capacity.
- The 'FP' function can only be activated during the heating operation mode. The unit will operate at a setting temperature of 46°F. The display window of indoor unit will display 'FP'. Pressing the button of ON/OFF, SLEEP, FP, MODE, FAN SPEED, UP or DOWN while operating will cancel the 'FP' function.

9 TIMER ON Button

Press this button to initiate the auto-on time sequence. Each press will increase the auto-timed setting by 30 minutes increments. When the setting time displays 10.0, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, simply adjust the auto-on time to 0.0.

Operation of buttons



10 TIMER OFF Button
 Press this button to initiate the auto-off time sequence. Each press will increase the auto-timed setting in 30 minute increments. When the setting time displays 10.0, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, simply adjust the auto-off time to 0.0

11 SWING Button
 Used to stop or start horizontal louver auto swing feature.

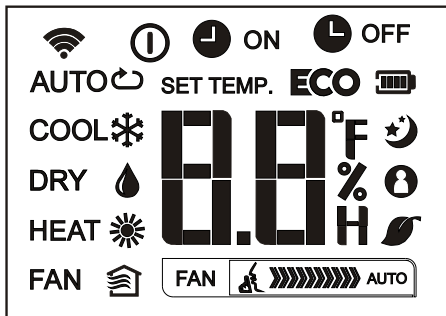
12 DIRECT Button
 Used to change the louver movement and set the desired up/down air flow direction. The louver changes 6° in angle for each press.

13 FOLLOW ME Button
 Push this button to initiate the Follow Me feature, the remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes interval until press the Follow Me button again. The air conditioner will cancel the Follow Me feature automatically if it does not receive the signal during any 7 minutes interval.

14 LED Button
 Disable/Active indoor screen Display. When pushing the button, the indoor screen display is cleared, press it again to light the display.

Indicators on LCD

Information are displayed when the remote controller is powered up.



Mode display

AUTO COOL DRY
HEAT FAN

- Displayed when data transmitted.
- Displayed when remote controller is ON.
- Battery display(low battery detection)
- ECO** Not available for this unit
- ON Displayed when TIMER ON time is set.
- OFF Displayed when TIMER OFF time is set.
- Shows set temperature or room temperature, or time under TIMER setting.

- Displayed in Sleep Mode operation.
- Indicates that the air conditioner is operating in Follow me mode
- Not available for this unit
- Not available for this unit

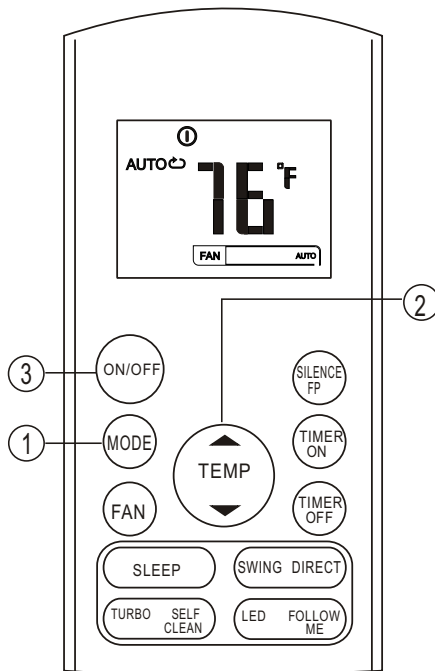
Fan speed indication

- FAN Low speed
- FAN Medium speed
- FAN High speed
- FAN Auto fan speed

Note:

All indicators shown in the figure are for the purpose of clear presentation. But during the actual operation only the relative functional signs are shown on the display window.

How to use the buttons



Auto operation

Ensure the unit is plugged in and power is available. The OPERATION indicator on the display panel of the indoor unit starts flashing.

1. Press the **MODE** button to select Auto.
2. Press the **UP/DOWN** button to set the desired temperature. The temperature can be set within a range of 62°F~ 86°F in 1°F increments.
3. Press the **ON/OFF** button to start the air conditioner.

NOTE

1. In the Auto mode, the air conditioner will logically choose Cooling, Fan, or Heating by sensing the difference between the actual ambient room temperature and the set temperature on the remote controller.
2. In the Auto mode, you can not switch the fan speed. It is automatically controlled.
3. If the Auto mode is not comfortable for you, the desired mode can be selected manually.

Cooling /Heating/Fan operation

Ensure the unit is turned on and power is available.

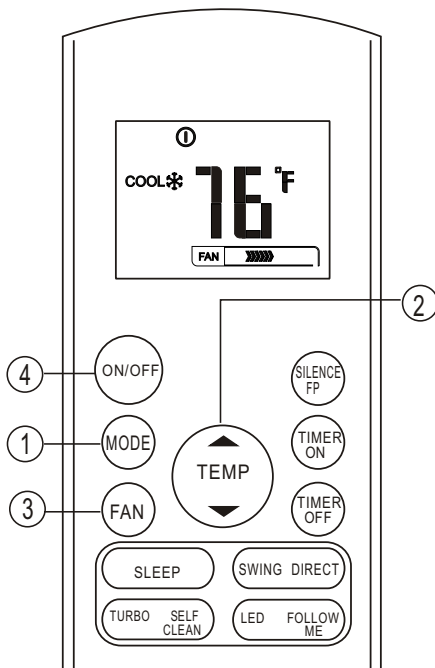
1. Press the **MODE** button to select COOL, HEAT or FAN mode.
2. Press the **UP/DOWN** buttons to set the

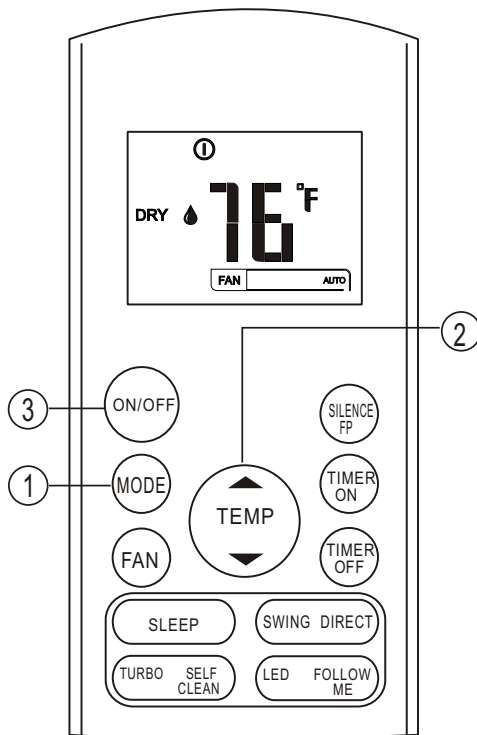
desired temperature. The temperature can be set within a range of 62°F~ 86°F in 1°F increments.

3. Press the **FAN** button to select the fan speed in four steps- Auto, Low, Med, or High.
4. Press the **ON/OFF** button to start the air conditioner.

NOTE

In the FAN mode, the setting temperature is not displayed in the remote controller and you are not able to control the room temperature either. In this case, only step 1, 3 and 4 may be performed.



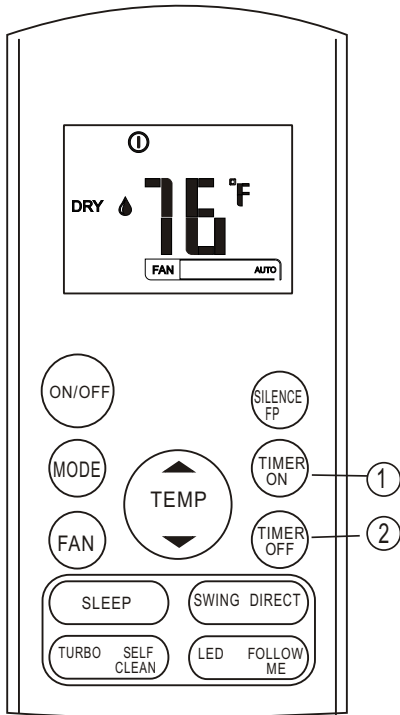
How to use the buttons**Dehumidifying operation**

Ensure the unit is plugged in and power is available. The OPERATION indicator on the display panel of the indoor unit will start flashing.

1. Press the **MODE** button to select DRY mode.
2. Press the **UP/DOWN** buttons to set the desired temperature. The temperature can be set within a range of 62°F~ 86°F in 1°F increments.
3. Press the **ON/OFF** button to start the air conditioner.

NOTE

In the Dehumidifying mode, you can not switch the fan speed. It is automatically controlled.



Timer operation

Pressing the TIMER ON button will set the auto-on time of the unit. Press the TIMER OFF button to set the auto-off time of the unit.

To set the Auto-on time.

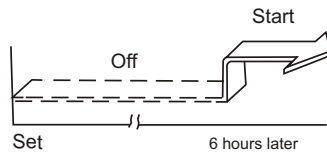
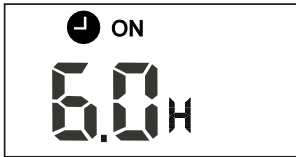
1. Press the TIMER ON button. The remote controller shows TIMER ON, the last Auto-on setting time and the signal "H" will be shown on the LCD display area. Now it is ready to reset the Auto-on time to START the operation.
2. Push the TIMER ON button again to set desired Auto-on time. Each time you press the button, the time increases by half an hour between 0 and 10 hours and by one hour between 10 and 24 hours.
3. After setting the TIMER ON, there will be a one second delay before the remote controller transmits the signal to the air conditioner. Then, after approximately another 2 seconds, the signal "h" will disappear and the set temperature will re-appear on the LCD display window.

To set the Auto-off time.

1. Press the TIMER OFF button. The remote controller shows TIMER OFF, the last Auto-off setting time and the signal "H" will be shown on the LCD display area. Now it is ready to reset the Auto-off time to stop the operation.
2. Push the TIMER OFF button again to set desired Auto-off time. Each time you press the button, the time increases by half an hour between 0 and 10 hours and by one hour between 10 and 24 hours.
3. After setting the TIMER OFF, there will be a one second delay before the remote controller transmits the signal to the air conditioner. Then, after approximately another 2 seconds, the signal "H" will disappear and the set temperature will re-appear on the LCD display window.

▲ CAUTION

- When you select the timer operation, the remote controller automatically transmits the timer signal to the indoor unit for the specified time. Therefore, keep the remote controller in a location where it can transmit the signal to the indoor unit properly.
- The effective operation time set by the remote controller for the timer function is limited to the following settings: 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 and 24.

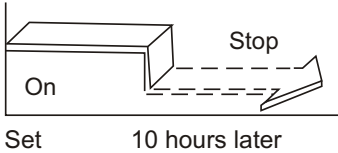
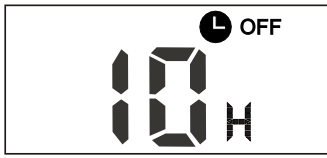
Example of timer setting**TIMER ON
(Auto-on Operation)**

The TIMER ON feature is useful when you want the unit to turn on automatically before you return home. The air conditioner will automatically start operating at the set time.

Example:

To start the air conditioner in 6 hours.

1. Press the TIMER ON button, the last setting of starting operation time and the signal "H" will show on the display area.
2. Press the TIMER ON button to display "6.0H" on the TIMER ON display of the remote controller.
3. Wait for 3 seconds and the digital display area will show the temperature again. The "TIMER ON" indicator remains on and this function is activated.



TIMER OFF (Auto-off Operation)

The TIMER OFF feature is useful when you want the unit to turn off automatically after you go to bed. The air conditioner will stop automatically at the set time.

Example:

To stop the air conditioner in 10 hours.

1. Press the TIMER OFF button, the last setting of stopping operation time and the signal "H" will show on the display area.
2. Press the TIMER OFF button to display "10H" on the TIMER OFF display of the remote controller.
3. Wait for 3 seconds and the digital display area will show the temperature again. The "TIMER OFF" indicator remains on and this function is activated.

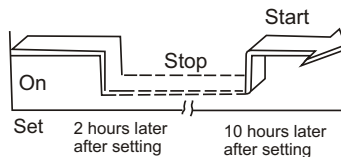
COMBINED TIMER

(Setting both ON and OFF timers simultaneously)

TIMER OFF → TIMER ON

(On → Stop → Start operation)

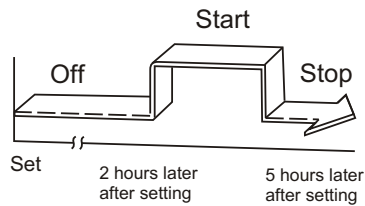
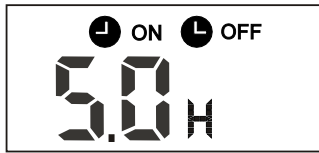
This feature is useful when you want to stop the air conditioner after you go to bed, and start it again in the morning when you wake up or when you return home.



Example:

To stop the air conditioner 2 hours after setting and start it again 10 hours after setting.

1. Press the TIMER OFF button.
2. Press the TIMER OFF button again to display 2.0H on the TIMER OFF display.
3. Press the TIMER ON button.
4. Press the TIMER ON button again to display 10H on the TIMER ON display .
5. Wait for 3 seconds and the digital display area will show the temperature again. The "TIMER ON OFF" indicator remains on and this function is activated.



TIMER ON → TIMER OFF

(Off → Start → Stop operation)

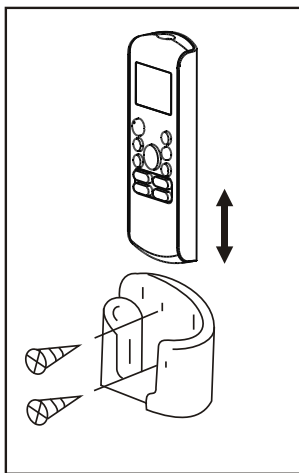
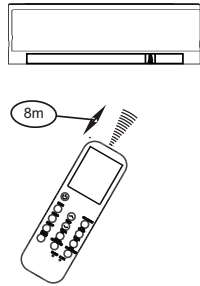
This feature is useful when you want to start the air conditioner before you wake up and stop it after you leave the house.

Example:

To start the air conditioner 2 hours after setting, and stop it 5 hours after setting.

1. Press the TIMER ON button.
2. Press the TIMER ON button again to display 2.0H on the TIMER ON display.
3. Press the TIMER OFF button.
4. Press the TIMER OFF button again to display 5.0H on the TIMER OFF display .
5. Wait for 3 seconds and the digital display area will show the temperature again. The "TIMER ON & TIMER OFF" indicator remains on and this function is activated.

Handling the remote controller



Location of the remote controller.

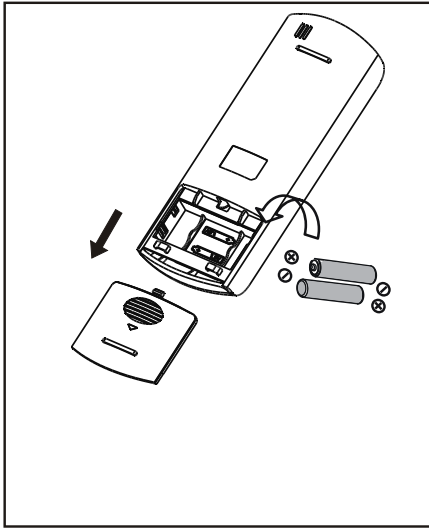
- Use the remote controller within a distance of 25 ft. from the appliance, pointing it towards the receiver. Reception is confirmed by a beep.

⚠ CAUTIONS

- The air conditioner will not operate if curtains, doors or other materials block the signals from the remote controller to the indoor unit.
- Prevent any liquid from falling into the remote controller. Do not expose the remote controller to direct sunlight or heat.
- If the infrared signal receiver on the indoor unit is exposed to direct sunlight, the air conditioner may not function properly. Use curtains to prevent the sunlight from falling on the receiver.
- If other electrical appliances react to the remote controller, either move these appliances or consult your local dealer.
- Do not drop the remote controller. Handle with care.
- Do not place heavy objects on the remote controller, or step on it.

Using the remote controller holder(optional)

- The remote controller can be attached to a wall or pillar by using a remote controller holder(not supplied, purchased separately).
- Before installing the remote controller, check that the air conditioner receives the signals properly.
- Install the remote controller with two screws.
- For installing or removing the remote controller, move it up or down in the holder.



Replacing batteries

The following cases signify exhausted batteries. Replace old batteries with new ones.

- Receiving beep is not emitted when a signal is transmitted.
- Indicator fades away.

The remote controller is powered by two AAA batteries housed in the lower rear and protected by a cover.

- (1) Remove the cover on the rear part of the remote controller.
- (2) Remove the old batteries and insert the new batteries, placing the (+) and (-) ends correctly.
- (3) Reinstall the cover.

NOTE: When the batteries are removed, the remote controller erases all programming. After inserting new batteries, the remote controller must be reprogrammed.

▲ CAUTIONS

- Do not mix old and new batteries or batteries of different types.
- Do not leave the batteries in the remote controller if they are not going to be used for 2 or 3 months.
- Do not dispose of batteries as unsorted municipal waste. Collection of such waste separately for special treatment is advised.

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.



1900 Wellworth Ave., Jackson, MI 49203 • Ph. 517-787-2100 • www.comfort-aire.com • www.century-hvac.com



www.marsdelivers.com • www.heatcontroller.com



HEAT CONTROLLER

User Manual

VMH09/12/18/24 SU Series

Inverter Single Zone
Ductless Mini-Split

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SAFETY PRECAUTIONS

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

 WARNING	This symbol indicates the possibility of death or serious injury.
 CAUTION	This symbol indicates the possibility of injury or damage to property.

■ Meanings of symbols used in this manual are as shown below.

	Strictly prohibited.
	Be sure to follow the instructions.

WARNING



- A poor electrical connection, poor insulation or voltage which is higher than permitted can cause fire.
- Do not expose your body directly to the cool air for prolonged periods.
- Never poke fingers, sticks or other objects in the air inlet and outlet vents.
- Never attempt to repair, relocate, modify the air conditioner yourself. Always contact your service partner if required.
- Do not operate your air conditioner in a wet room such as a bathroom or laundry room.



- In the event of any abnormalities such as smell of burning, immediately switch off the device and shut off breaker. Contact your service partner.
- Always switch off the device and remove power before you start to clean it.
- Use specified power cord.
- Contact the authorized installer for installation of this unit.
- Contact an authorized service technician for repair or maintenance of this unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the air conditioner.

SAFETY PRECAUTIONS **CAUTION**

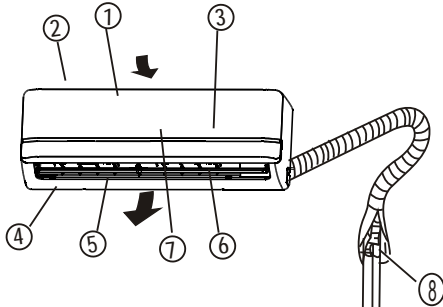
- Never actuate any switches with a wet hand. It may cause an electric shock. Never use the device for any other purpose than the intended use. Never place food, precision instruments, plants, animals, paint, etc. on the unit.
- Do not expose plants or animals directly to the air flow.
- Never clean the air conditioner with water. Never use combustible cleaning agents as these could cause a fire or deformation.
- Never place any burning objects close to the device if they could be directly affected by the emitted air.
- Never step onto the outdoor device and never place anything on it. Never use an unsteady or rusty base.
- Never install the air conditioner in places where combustible gas can be emitted. Emitted gas may collect and cause an explosion.
- Never allow the air conditioner to run for too long with the doors or windows open, or if the humidity is very high.



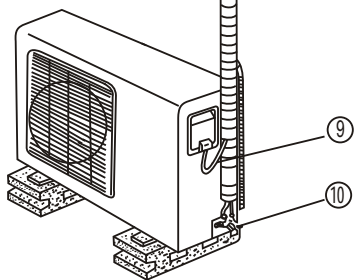
- If the air conditioner is to be used in conjunction with other heaters, the air should be refreshed periodically, otherwise there is a risk of lack of oxygen.
- Always remove power if the unit is not going to be used for any lengthy period of time. Collections of dust can cause fire.
- Always switch off the air conditioner and remove power during a storm. Electrical parts may get damaged. Check that the drainage line is correctly connected. If not, water will escape. Check that the condensation water can run off unhindered. It may cause water damage if the condensation water cannot run off properly.
- The air conditioner must be earthed in accordance with the local codes.
- For electrical safety purposes we recommend that you install an earth-leakage circuit-breaker.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified persons in order to avoid a hazard.

NAMES OF PARTS

Indoor unit



Outdoor unit



Names of parts

Indoor unit

1. Front panel
2. Air inlet
3. Air filter
4. Air outlet
5. Horizontal air flow grille
6. Vertical air flow louver(inside)
7. Display panel

Outdoor unit

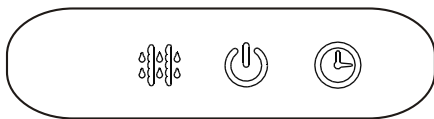
8. Connecting pipe
9. Connecting cable
10. Stop valve

NOTE:

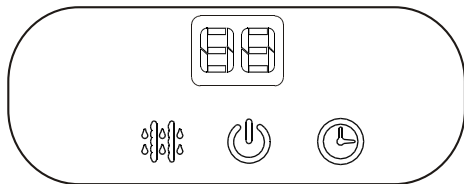
All the pictures in this manual are for explanation purposes only. The actual shape of the indoor unit you purchased may be slightly different on front panel and display window. The actual shape shall prevail.

Indication lamp

The display window of the indoor unit you purchased may be look like:



(A)



(B)



DEFROST indication lamp

(Enabled on cooling & heating models only):
Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.



OPERATION indication lamp

This lamp illuminates when the air conditioner is in operation.



TIMER indication lamp

Lights up during Timer operation.



DIGITAL DISPLAY indicator(optional)

- Displays the temperature settings when the air conditioner is operational.
- Displays the malfunction code.

OPERATING INSTRUCTIONS

Special functions

Refrigerant Leakage Detection

With this new technology, the display area will appear 'EC' and the indication lamps continue flashing when the outdoor unit detects refrigerant leakage.

Louver Angle Memory Function(optional):

Within the scope of safety angle, it will memorize the open angle of horizontal louver. If it exceeds, it will memorize the boundary of safety angle. In the following circumstances, it will return to standard angle: 1) pressing the manual control button, 2) remove and return power to the machine. We strongly suggest that the open angle of the horizontal louver should not be set too small, in case the condensed water forms and drops from the horizontal louver.

SELF CLEAN function (Optional)

- Function used after the Shut Down of cooling operation to clean the Evaporator and keep it fresh for the next operation.
- The unit will operate as following sequence : FAN ONLY mode at Low fan speed--Heating operation with LOW fan speed(applicable to cooling & heating models only) ---FAN ONLY operation--Stop Operation---Turn off.

Note:

- This function is only available under COOL(AUTO COOL, FORCED COOL) and DRY mode.
- Before selecting the function, it is recommended to run the air conditioner in Cooling operation for about half an hour. Once the Self Clean function is activated, all TIMER settings will be canceled.
- During Self Clean operation, pressing the SELF CLEAN button on the remote controller again will stop the operation and turn off automatically.

CLEAN AIR function (on some models)

This air conditioner is equipped with ionizer or Plasma Dust Collector(Depending on specific configuration of the model). With the anions generated by Ionizer, the air circulation of the air conditioner fills the room with refreshing, natural and healthy air. The Plasma Dust Collector generates a high voltage ionization zone, through which the air is converted to plasma. Inside the air most of the dust, smoke, and pollen particles are captured by the electrostatic filter.

● **Anti-mildew function Optional**

When turning off in COOL, DRY, AUTO (Cool) mode, the air conditioner will continue operating for about 7-10 minutes (depending on models) at LOW fan speed. If turns off on HEAT mode, the unit will continue operating for about 30 seconds at LOW fan speeds. This will help to dry up the condensed water inside the evaporator, and prevent the breeding of mildew.

- Under Anti-mildew operation, do not restart the air conditioner until the unit is completely off.

Vertical swing function Optional

After the air conditioner starts up, users can control the vertical louver swing by the remote controller.

OPERATING INSTRUCTIONS

NOTE: This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

Operating temperature

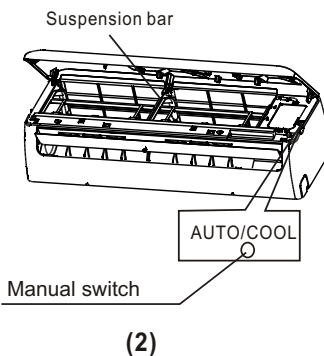
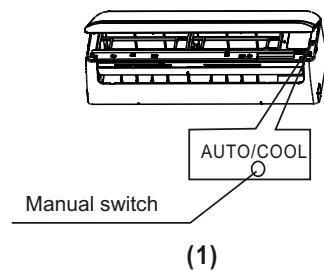
Mode Temperature	Cooling operation	Heating operation	Drying operation
Room temperature	62°F~90°F (17°C~32°C)	32°F~86°F (0°C~30°C)	50°F~90°F (10°C~32°C)
Outdoor temperature	32°F~122°F (0°C~50°C)	22°F~86°F (30°C~30°C)	32°F~122°F (0°C~50°C)
	(22°F~122°F / ((30°C~50°C)) For the models with low temperature cooling system)		

NOTE:

1. Optimum performance will be achieved within these operating temperatures. If air conditioner is used outside of the above conditions, certain safety protection features might come into operation and cause the unit to function abnormally.
2. If the air conditioner runs for a long time in cooling mode and the humidity is high (over 80%), condensed water may drip out of the unit. Please sets the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.

Manual operation

Units are equipped with a switch to run emergency operation mode. It can be accessed by opening the front panel. This switch is used for manual operation in case the remote controller fails to work or maintenance necessary.



NOTE: The unit must be turned off before operating the manual control button. If the unit is operational, continue pressing the manual control button until the unit is off.

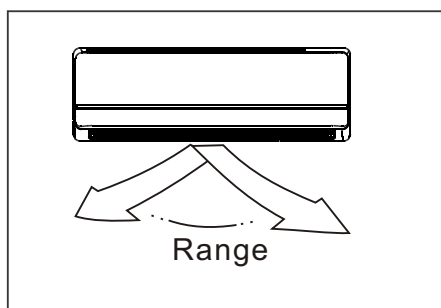
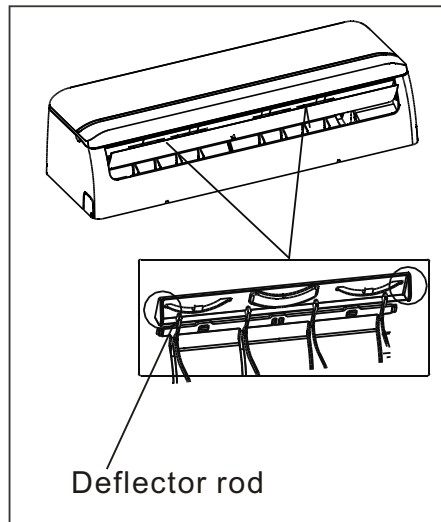
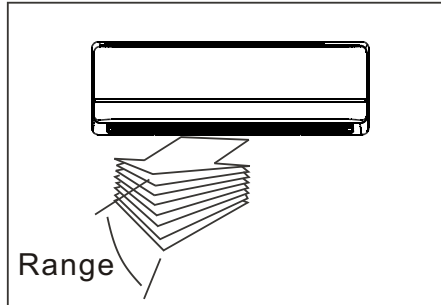
- ① Open and lift the front panel up to an angle until it remains fixed with a clicking sound. For some models, please use suspension bars to prop up the panel.
- ② One press of the manual control switch will lead to the forced AUTO operation. Press the switch twice within five seconds, and the unit will operate under forced COOL
- ③ operation. Close the panel firmly to its original position.

CAUTION:

- This switch is used for testing purposes only.
- To restore the remote controller operation, send signal from the remote controller.

OPERATING INSTRUCTIONS

Airflow direction control



Adjust the air flow direction properly, otherwise it may cause discomfort or cause uneven room temperatures.

Adjust the horizontal/vertical louver using the remote controller. For some models, the vertical louver can only be adjusted manually.

To set the horizontal/vertical air flow direction

- Perform this function while the unit is in operation.
- Use the remote controller to adjust the air flow direction. The vertical/horizontal louver changes 6 degree in angle for each press, or swing up and down automatically. Please refer to the ‘‘REMOTE CONTROLLER OPERATION MANUAL’’ for details.
- For some models, the vertical louver can only be adjusted manually. Move the deflector rod manually to adjust the air flow in the direction you prefer.

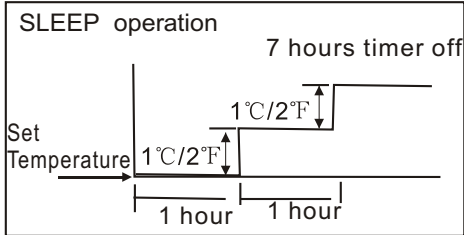
IMPORTANT: Do not put your fingers into the panel of blower and suction side. The high-speed fan inside may cause injury.

⚠ CAUTION

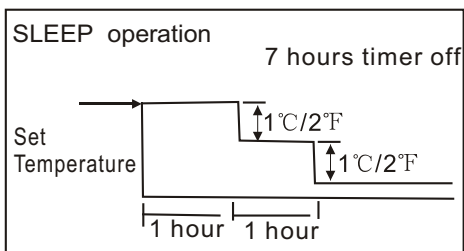
- Do not operate the air conditioner for long periods with the air flow direction set downward in cooling or dehumidifying mode. Otherwise, condensation may occur on the surface of the horizontal louver causing moisture to drop on to the floor or on furnishings.
- When the air conditioner is started immediately after it was stopped, the horizontal louver might not move for approximately 10 seconds.
- Open angle of the horizontal louver should not be set too small, as COOLING or HEATING performance may be impaired due to restricted air flow area.
- Do not move the horizontal louver manually, otherwise the horizontal louver will be out of sync.
- Do not operate unit with horizontal louver in closed position.

OPERATING INSTRUCTIONS

How the air conditioner works



Cooling



Heating

AUTO operation

- When you set the air conditioner in AUTO mode, it will automatically select cooling, heating (cooling/heating models only), or fan only operation depending on set temperature and the room temperature.
- The air conditioner will control room temperature automatically to the temperature point you set.
- If you feel uncomfortable in the AUTO mode, you can set your desired temperature.

SLEEP operation

When you push SLEEP button on remote controller during cooling, heating (cooling & heating models only), or AUTO operation, the air conditioner will automatically increase (cooling) or decrease (heating) 1°C/2°F per hour for the first 2 hours, then hold steadily for the next 5 hours, after that it will switch off. This mode saves you energy and brings you comfort at night.

DRYING operation

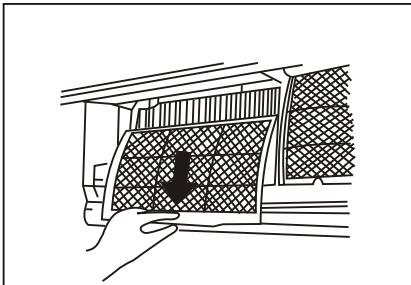
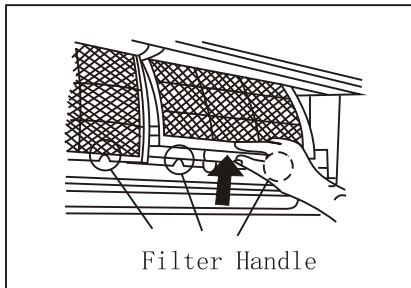
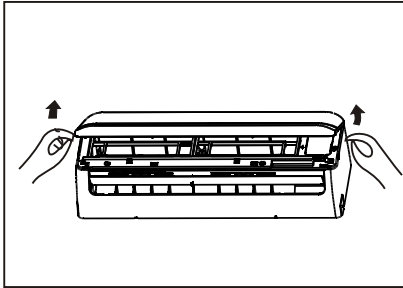
- The fan speed will be automatically controlled under dry operation.
- During the dry operation, if the room temperature is lower than 10°C(50°F), the compressor stops operation and restarts until the room temperature is above 12°C(54°F).

Optimal operation

- To achieve optimal performance, please note the following:
- Adjust the air flow direction correctly so that it is not towards people.
- Adjust the temperature to achieve the highest comfort level. Do not adjust the unit to excessive temperature levels.
- Close doors and windows on COOL or HEAT modes, or performance may be reduced.
- Use TIMER ON button on the remote controller to select a time you want to start your air conditioner.
- Do not put any object near air inlet or air outlet, as the efficiency of the air conditioner may be reduced and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating performance may be reduced.
Do not operate unit with horizontal louvre in closed position.

CARE AND MAINTENANCE

Care and Maintenance



Before maintenance

- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTE: Power supply must be disconnected before cleaning the indoor unit.

⚠ CAUTIONS

- A cloth dampened with cold water may be used on the indoor unit if it is very dirty. Then wipe it with a dry cloth.
- Do not use a chemically treated cloth or duster to clean the unit.
- Do not use benzene, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.
- Never use water hotter than 40°C/104°F to clean the front panel, it could cause deformation or discoloration.

Cleaning the unit

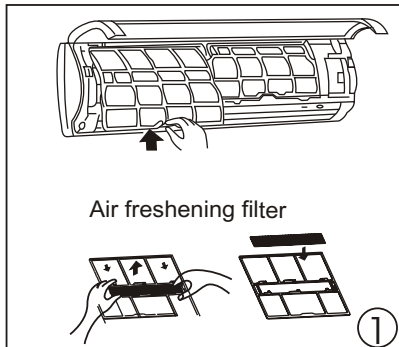
wipe the unit with a soft dry cloth only. If the unit is very dirty, wipe it with a cloth soaked in warm water.

Cleaning the air filter and air freshening filter

A clogged air filter reduces the cooling efficiency of this unit. Please clean the filter once every 2 weeks.

1. Lift the indoor unit panel up to an angle until it stops with a clicking sound. For some models, please use suspension bars to prop up the panel.
2. Take hold of the handle of the air filter and lift it up slightly to take it out from the filter holder, then pull it downwards.
3. Remove the AIR FILTER from the indoor unit. Clean the AIR FILTER once every two weeks. Clean the AIR FILTER with a vacuum cleaner or water, then dry it in cool place.

CARE AND MAINTENANCE



4. Remove the Air Freshening Filters from supporting frame (The solution to disassemble may differ from each other for different filters. Refer to ① and ②). Clean the air freshening filter at least once a month, and replace it every 4-5 months.

Clean it with vacuum cleaner, then dry it in cool place.

- △ For the models with plasma, do not touch the plasma within 10 minutes after you open the panel.
5. Install the air freshening filter back into position.
6. Insert the upper portion of air filter back into the unit, taking care that the left and right edges line up correctly and place filter into position.

Replacement of air filter and air freshening filter

1. Remove the air filter.
2. Remove the air freshening filter.
3. Install a new air freshening filter.
4. Reinstall the air filter and securely close the front panel.

Preparation for extended non-operation

If you plan to idle the unit for a long time, perform the following:

- (1) Clean the indoor unit and filters.
- (2) Operate the fan for about half a day to dry the inside of the unit.
- (3) Stop the air conditioner and disconnect power.
- (4) Remove the batteries from the remote controller.

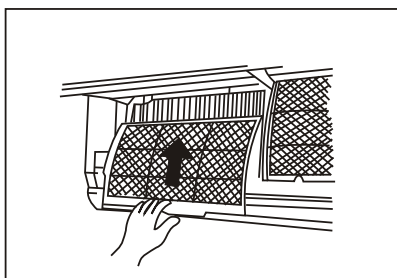
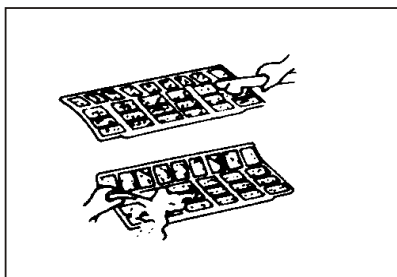
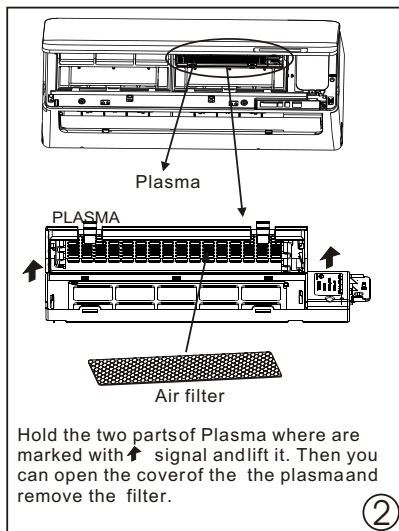
The outdoor unit requires periodic maintenance and cleaning. Do not attempt to do this yourself. Contact your dealer or service provider.

Pre-season inspection

- Check that the wiring is not broken off or disconnected.
- Clean the indoor unit and filters.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

⚠ Caution

- Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- When cleaning the unit, first make sure that the power and circuit breaker are turned off.
- Do not wash air filter with hot water at more than 40°C/104°F. Shake off moisture completely and dry it in the shade. Do not expose it directly to the sun, it may shrink.



TROUBLESHOOTING TIPS

Normal function of the air conditioner

The following events may occur during normal operation.

1. Protection of the air conditioner.

Compressor protection

- The compressor can't restart for 3-4 minutes after it stops.

Anti-cold air (Cooling and heating models only)

- The unit is designed not to blow cold air on HEAT mode, when the indoor heat exchanger is in one of the following three situations and the set temperature has not been reached.

A) When heating has just started.

B) Defrosting.

C) Low temperature heating.

- The indoor or outdoor fan stop running when defrosting (Cooling and heating models only).

Defrosting (Cooling and heating models only)

- Frost may be generated on the outdoor unit during heat cycle when outdoor temperature is low and humidity is high resulting in lower heating efficiency of the air conditioner.
- During this condition air conditioner will stop heating operation and start defrosting automatically.
- The time to defrost may vary from 4 to 10 minutes according to the outdoor temperature and the amount of frost built up on the outdoor unit.

2. A white mist coming out from the indoor unit

- A white mist may generate due to a large temperature difference between air inlet and air outlet on COOL mode in an indoor environment that has a high relative humidity.
- A white mist may generate due to moisture generated from defrosting process when the air conditioner restarts in HEAT mode operation after defrosting.

3. Low noise of the air conditioner

- You may hear a low hissing sound when the compressor is running or has just stopped running. It is the sound of the refrigerant flowing or coming to a stop.
- You may also hear a low "squeak" sound when the compressor is running or has just stopped running. This is caused by heat expansion and cold contraction of the plastic parts in the unit when the temperature is changing.
- A noise may be heard due to louver restoring to its original position when power is turned on.

4. Dust is blown out from the indoor unit.

This is a normal condition when the air conditioner has not been used for a long time or during first use of the unit.

5. A peculiar smell comes out from the indoor unit.

This is caused by the indoor unit giving off smells permeated from building material, from furniture, or smoke.

6. The air conditioner turns to FAN only mode from COOL or HEAT (For cooling and heating models only) mode.

When indoor temperature reaches the temperature setting on air conditioner, the compressor will stop automatically, and the air conditioner turns to FAN only mode. The compressor will start again when the indoor temperature rises on COOL mode or falls on HEAT mode (For cooling and heating models only) to the set point.

TROUBLESHOOTING TIPS

7. The air conditioner runs Anti-mildew function after turning off the unit.

When turning off the unit under COOL(AUTO COOL, FORCED COOL) and DRY mode, the air conditioner will run Anti-mildew function for 7-10 minutes, if turns off on HEAT mode, the unit will continue operating for about 30 seconds at LOW fan speed, then stop the operation and turn off the unit automatically.

8. Dripping water may generate on the surface of the indoor unit when cooling in a high relative humidity (relative humidity higher than 80%). Adjust the horizontal louver to the maximum air outlet position and select HIGH fan speed.

9. Heating mode (For cooling and heating models only)

The air conditioner draws in heat from the outdoor unit and releases it via the indoor unit during heating operation. When the outdoor temperature falls, heat drawn in by the air conditioner decreases accordingly. At the same time, heat loading of the air conditioner increases due to larger difference between indoor and outdoor temperature. If a comfortable temperature can't be achieved by the air conditioner, we suggest you use a supplementary heating device.

10. Auto-restart function

- Power failure during operation will stop the unit completely.
- For the unit without Auto-restart feature, when the power restores, the OPERATION indicator on the indoor unit starts flashing. To restart the operation, push the ON/OFF button on the remote controller. For the unit with Auto-restart feature, when the power restores, the unit restarts automatically with all the previous settings preserved by the memory function.

TROUBLESHOOTING TIPS

Troubleshooting guide

Trouble	OPERATION (RUN) indicator or other indicators continue flashing.	The unit may stop operation or continue to run in a safety condition (depending on models). Wait for about 10 minutes, the fault may be recovered automatically, if not, disconnect the power and then connect it in again. If the problem still exists, disconnect the power and contact the nearest customer service center.
	If one of the following code appears on the display area : E0,E1,E2,E3.....or P0,P1,P2, P3....., or F1,F2,F3.....	
	Fuse blows frequently or circuit breaker trips frequently .	Stop the air conditioner immediately, disconnect the power and contact the nearest customer service center.
	Other objects or water fall into the air conditioner.	
Terrible odors are smelled or abnormal sounds are heard.		

Malfunctions	Cause	What should be done?
Unit does not start	Power cut	Wait for power to be restored.
	Fuse may have blown.	Replace the fuse.
	Battery in Remote controller may have been exhausted.	Replace the battery.
	The time you have set with timer is incorrect.	Wait or cancel timer setting.
Unit not cooling or heating (Cooling/ heating models only) room very well while air flowing out from the air conditioner	Inappropriate temperature setting.	Set temperature correctly. For detailed method please refer to "Using remote control" section.
	Air filter is blocked.	Clean the air filter.
	Doors or Windows are open.	Close the doors or windows.
	Air inlet or outlet of indoor or outdoor unit has been blocked.	Clear obstructions away first, then restart the unit.
	Compressor 3 minutes protection has been activated.	Wait.
If the trouble has not been corrected, please contact a local dealer or the nearest customer service center. Be sure to inform them of the detailed malfunctions and unit model number.		

**Notes: Do not attempt to repair the unit yourself.
Always consult an authorized service provider.**

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.



1900 Wellworth Ave., Jackson, MI 49203 • Ph. 517-787-2100 • www.comfort-aire.com • www.century-hvac.com



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